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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 29

**Complete if Known**

Application Number	10/631,071
Filing Date	July 31, 2003
First Named Inventor	Ronald L. Mahany
Group Art Unit	2687
Examiner Name	M. Santiago Cordero
Attorney Docket Number	14406US02

**U.S. PATENT DOCUMENTS**

Examiner Initial*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MSC	A1	4,449,248	05-15-1984	Leslie et al.	
↑	A2	5,027,428	06-25-1991	Ishiguro et al.	
	A3	5,058,023	10-15-1991	Kozikaro	
	A4	5,058,203	10-15-1991	Inagami, Fujio	
	A5	5,142,534	08-25-1992	Simpson et al.	
	A6	5,224,152	06-29-1993	Harte	
	A7	5,301,225	12-23-1992	Suzuki et al.	
	A8	5,375,254	12-14-1990	Owen	
	A9	5,420,911	05-30-1995	Dahlin et al.	
	A10	5,590,346	12-31-1996	West et al.	
	A11	5,274,666	12-28-1993	Dowdell et al.	
	A12	5,329,531	07-12-1994	Diepstraten et al.	
	A13	5,329,576	07-12-1994	Handforth	
	A14	5,371,734	12-06-1994	Fischer	
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	A17	5,757,239	05-25-1998	Gilmore	
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	A28	6,823,033	11-23-2004	Fahim	
	A29	6,888,913	05-03-2005	Walker	
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MSC	A34	4,903,319	02-20-1990	Kasai et al.	

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SIGNATURE

Mauricio Santiago Cordero

DATE CONSIDERED

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Sheet

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Of

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Group Art Unit	2687
Examiner Name	M. Santiago Cordero
Attorney Docket Number	14406US02

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msc	A35	4,964,121	10-16-1990	Moore	
	A36	4,977,611	12-11-1990	Maru	
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msc	A46	6,764,983	07-20-2004	Hammond et al.	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>4</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	B1					

**OTHER ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (In CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
msc	C1	Respondent Qualcomm Incorporated's Notice Of Prior Art, with Exhibits A & D attached thereto
	C2	Qualcomm's Response To Interrogatory 3, with Exhibits B & C attached thereto
	C3	INTENTIONALLY LEFT BLANK NO DATE LISTED
	C4	INTENTIONALLY LEFT BLANK NO DATE LISTED
	C5	"A New Chapter In Wireless Communication And Email", Electronic Messaging News, 11/27/1991, Vol. 3, No. 24
	C6	"A New Radio Access Protocol And Network Architecture For Mobile Packet Data", Cognito Group Limited, Bates Nos. QBB569268-323 NO DATE LISTED
	C7	"AMDC Extends RFP Deadline To March 10; Waiver Decision Expected At FCC's March Meeting", Industrial Communications, 02/17/1989, No. 7
	C8	"AMDC Picks Ericsson Gear", Communications Week, 06/12/1989, Vol. 252, p. 44
msc	C9	"An Effective Prioritization Scheme For Handovers In Cellular Networks", IEEE - ICUPC '92 Proceedings, 09/29/1992-10/02/1992, pp. 364-368

NO DATE

NO DATE

NO DATE LISTED

NO DATE LISTED

NO DATE LISTED

EXAMINER

Manuel Santiago Cordero

DATE CONSIDERED

6/30/06

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				Examiner Name	M. Santiago Cordero	
Attorney Docket Number	14406US02					
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	C11	"Ardis To Face Competition From RAM", Newsbytes, 02/05/1991
	C12	"Automation In Warehousing", Proceedings Of The 8 <sup>th</sup> International Conference, Tokyo, Japan, 10/06-08/1987, pp. 1-355
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	C30	"Cellular System Dual-Mode Mobile Station - Base Station Compatability Standard", EIA/TIA Interim Standard, 05/1990, IS-54
msc	C31	"Cellular System Mobile Station - Land Station Compatability Specification", Office Of Science Technology Bulletin No. 53, 07/1983

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Sheet	4	Of	29

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msc	C32	"Change Request 05.02-11", Recommendation GSM 05.02, v. 3.3.0, 06/22/1989
	C33	"Change Request 05.02-14", Recommendation GSM 05.02, v. 3.3.0, 11/28/1989
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	C48	"Ericsson - Company Report: Hoare Govett Investment Research Ltd", 10/01/1990, Investext Report No. 1039045, p. 22
	C49	"Ericsson - Company Report: Prudential Securities Inc.", 03/19/1990, Investext Report No. 1001955, p. 10
	C50	"Ericsson - Company Report: Svenska International PLC", Ericsson Company Report, Svenska International PLC, Investext Report No. 1142535, 10/04/1991, p. 2
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	C72	"Ericsson Gets \$55M Pact for Cellular Radio Data Gear", Electronic News (1991), p. 19, 06/12/1989
	C73	"Ericsson Has Data Unit" Communications Week, 01/08/1990, p. 8
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	C86	"FCC Calendar Of Events For The Week Of February 11", FCC Daily Digest, 02/08/1991, Vol. 10, No. 27
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msc	C89	"Lead Story #2: Swedish Government Picks Magnovox AVL For Upcoming Trials, Inside IVHS, 02/04/1991, Vol. 1, No. 3

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msc	C90	"Man-Machine Interface Of The Mobile Station", Recommendation GSM 02.30, v 3.5.0, 03/1990
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet

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Application Number	10/631,071
Filing Date	July 31, 2003
First Named Inventor	Ronald L. Mahany
Group Art Unit	2687
Examiner Name	M. Santiago Cordero
Attorney Docket Number	14406US02

**OTHER ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
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	C210	Cellular Digital Packet Data System Specification Release 0.9 - Preliminary Draft, N/A, 04/30/1993
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	C212	Cellular Digital Packet Data System Specification Release 1.0 - Book III, 07/19/1993
	C213	Cellular Digital Packet Data System Specification Release 1.0 - Book IV, 07/19/1993
	C214	Cellular Digital Packet Data System Specification Release 1.0 - Book V, 07/19/1993
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary))		Application Number	10/631,071
		Filing Date	July 31, 2003
		First Named Inventor	Ronald L. Mahany
		Group Art Unit	2687
		Examiner Name	M. Santiago Cordero
Attorney Docket Number	14406US02		
Sheet	14	Of	29

OTHER ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
msc	C220	Cellular Digital Packet Data System Specification Release 1.1 - Book 5, 1995 CDPD Forum, Inc., 04/19/1995
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MSC	C319	LOBERG et al., "Mobitex - The New Swedish Cellular Mobile Radio Service", International Conference On Radio Receivers & Associated Systems (4 <sup>th</sup> : 1986), 1986, Pub. No. 68, pp. 77-82 <i>NO MONTH USED</i>
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary))				Application Number	10/631,071
				Filing Date	July 31, 2003
				First Named Inventor	Ronald L. Mahany
				Group Art Unit	2687
				Examiner Name	M. Santiago Cordero
Sheet	21	Of	29	Attorney Docket Number	14406US02

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	C357	REITER, "Three Cellular Modems", PC Magazine, 12/25/1990, Vol. 9, No. 22, p. 365
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	C359	ROHANI et al., "Low Cost High Performance CDMA System For U.S. PCS", IEEE - ICUPC '92 Proceedings, 09/29/1992-10/02/1992, pp. 278-282
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	C369	SESHAN, "Low-Latency Handoff For Cellular Data Networks", Ph.D. Thesis, University Of California At Berkeley, 1995 NO MONTH LISTED
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	C376	STEINERT-THRELKELD, "Ericsson Unit To Aid New Network; Richardson Firm To Provide Equipment For Cellular Data Link", The Dallas Morning News, Record No. DAL1073150, 06/01/1989
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MSC	C382	TAN et al., "Mobicast: A Multicast Scheme For Wireless Networks", Mobile Networks And Applications 5, 2000, pp. 259-271 NO MONTH LISTED

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msc	C399	WANG et al., "Tracking A Head-Mounted Display In A Room-Sized Environment With Head-Mounted Cameras", Proc. Of Helmet-Mounted Displays II, Orlando, FL, 04/19/1990-04/20/1990, Vol. 1290 SPIE
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	C401	WANG, "The Hierarchical Structure Of Tracing Strategy For Universal Personal Communication Systems", IEEE - ICUPC '92 Proceedings, 09/29/1992-10/02/1992, pp. 242-246
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m s c	C415	LIN et al., "A 900 MHz, 2.5mA CMOS Frequency Synthesizer With An Automated SC Tuning Loop", Elec. Eng. Dept. UCLA, pp. 375,378 <b>NO DATE LISTED</b>
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	C417	INTENTIONALLY LEFT BLANK <b>NO DATE LISTED</b>
	C418	INTENTIONALLY LEFT BLANK <b>NO DATE LISTED</b>
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	C424	INTENTIONALLY LEFT BLANK <b>NO DATE LISTED</b>
	C425	INTENTIONALLY LEFT BLANK <b>NO DATE LISTED</b>
	C426	INTENTIONALLY LEFT BLANK <b>NO DATE LISTED</b>
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	C428	"Mobile Station Features", Recommendation GSM 4.4.2, 10/1993
	C429	"Mobilät Datanät om två år" (Mobile Datanet In Two Years), Elteknik Med. Ekteuell Elektronik, 1985, V. 5, p. 6 <b>NO MONTH LISTED</b>
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	C431	"Proposed EAI, TIA Standard, Cellular System CDMA-Analog Dual-Mode Mobile Station - Base Station Compatibility Standard, Rev. 1.14", 04/21/1992
	C432	INTENTIONALLY LEFT BLANK <b>NO DATE LISTED</b>
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	C434	"Random Access Procedures", GSM 04.06, v. 3.6.0 <b>NO DATE LISTED</b>
	C435	INTENTIONALLY LEFT BLANK <b>NO DATE LISTED</b>
	C436	"Release Note, Recommendation" GSM 03.20, v. 3.3.2, 01/1991
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	C438	"Release Note, Recommendation", GSM 02.30, v. 3.5.0, 03/1990
	C439	INTENTIONALLY LEFT BLANK <b>NO DATE LISTED</b>
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m s c	C442	INTENTIONALLY LEFT BLANK <b>NO DATE LISTED</b>

EXAMINER <i>Manuelise Santiago Cordero</i>	DATE CONSIDERED <i>6/30/03</i>
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Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/631,071
				Filing Date	July 31, 2003
				First Named Inventor	Ronald L. Mahany
				Group Art Unit	2687
				Examiner Name	M. Santiago Cordero
				Attorney Docket Number	14406US02
Sheet	27	Of	29		

OTHER ART -- NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
msc	C443	INTENTIONALLY LEFT BLANK NO DATE LISTED
	C444	Agere v. Broadcom 07/20/2004 Memorandum & Order, Bates Nos. BCMITC00000256573-667
	C445	BALSTON, Cellular Radio Systems, 1993 NO MONTH LISTED
	C446	Broadcom's Third Supplemental Objections and Responses To Qualcomm's First Set Of Interrogatories (1-53), 11/07/2005
	C447	Cellular Digital Packet Data System Specification Release 10 - Book 1, N/A, 07/19/1993
	C448	Cellular System Dual-Mode Station - Base Station Compatibility Standard, EIA/TIA/IS-54, 05/01/1990
	C449	Change Request (Phase 2) Nos. 17, Tdoc GSM 195/93, 02/1992, Bates Nos. QBB222315-319
	C450	INTENTIONALLY LEFT BLANK NO DATE LISTED
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	C456	ESTI Radio Equipment And Systems (RES); Digital Equipment Cordless Telecommunications (DECT) Common Interface Part 6: Identities And Addressing, ETS 300 175-6, 10/01/1992
	C457	ESTI Radio Equipment And Systems (RES); Digital Equipment Cordless Telecommunications (DECT) Common Interface Part 7: Security Features, ETS 300 175-7, 10/01/1992
	C458	ESTI Radio Equipment And Systems (RES); Digital Equipment Cordless Telecommunications (DECT) Common Interface Part 8: Speech Coding And Transmission, ETS 300 175-8, 10/01/1992
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	C461	Fast And Scalable Handoffs For Wireless Internet Works", Proceedings Of The 2nd Annual International Conference On Mobile Computing And Networking (Rye, NY), 1995, pp. 56-66 NO MONTH LISTED
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MSC	C464	File History of USSN 08/114,872, Bates Nos. QBB220620-1242 <b>NO DATE LISTED</b>
	C465	File History of USSN 08/431,077, Bates Nos. BCMITC000079534-862 <b>NO MONTH LISTED</b>
	C466	File History of USSN 08/487,609, Bates Nos. BCMITC0000792166-658 <b>NO MONTH LISTED</b>
	C467	File History of USSN 08/513,648 ('983 file history), Bates Nos. BCMITC000071666-72400 <b>NO MONTH LISTED</b>
	C468	File History of USSN 09/060,287 ('311 file history), Bates Nos. BCMITC000071327-71665 <b>NO MONTH LISTED</b>
	C469	INTENTIONALLY LEFT BLANK <b>NO DATE LISTED</b>
	C470	General on Terminal Adaptation Functions For The MSs, GSM 07.01 v 3.14.0, 04/01/1992
	C471	GSM PLMN Connection Types, GSM 03.10 v 3.3.0, 02/1992
	C472	INTENTIONALLY LEFT BLANK <b>NO DATE LISTED</b>
	C473	HAINE, "A New Radio Access Protocol And Network Architecture For Mobile Packet Data", Proc. Of Vehicular Technology Conference, 05/19-22/1991, pp. 399-407
	C474	HENDERSON, "Public Data Networks: The Mobitex System", Paper Presented At The IEEE Vehicle Navigation And Information Systems Conference (VNIS '89), 1989, pp. 365 <b>NO MONTH LISTED</b>
	C475	INTENTIONALLY LEFT BLANK <b>NO DATE LISTED</b>
	C476	Introduction To Telephones And Telephone Systems, 3rd Edition, 1998 <b>NO MONTH LISTED</b>
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	C481	LEE, Mobile Cellular Telecommunications Systems, 1989, Bates Nos. QBB147008-463 <b>NO MONTH LISTED</b>
	C482	List of Change Request Presented To SMH Plenary No 6, Rev 1, SMG 305/93, 03/29/1993
	C483	LYCKSELL, "Mobitex, ett kommunikations-radionät för text, data och tal" (A Radio Communication Network For Text, Data And Speech), 1986 <b>NO MONTH LISTED</b>
	C484	Mobile Information Systems, 1990 <b>NO MONTH LISTED</b>
	C485	Mobile Radio Interface Layer 3 Specification, GSM 04.08 v 4.2.0, 10/1992, Bates Nos. QBB479485-977
	C486	Mobile Radio Interface Layer 3 Specification; Core Network Protocols; Stage 3, ETSI TS 124008 v. 5.3.0, 2002 <b>NO MONTH LISTED</b>
	C487	Mobile Station - Land Station Compatibility Specification, EIA/TIA-553, 09/01/1989
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EXAMINER <i>Mauricio Santiago-Cordero</i>	DATE CONSIDERED <i>6/30/06</i>
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MSC	C492	INTENTIONALLY LEFT BLANK NO DATE LISTED
	C493	INTENTIONALLY LEFT BLANK NO DATE LISTED
	C494	INTENTIONALLY LEFT BLANK NO DATE LISTED
	C495	INTENTIONALLY LEFT BLANK NO DATE LISTED
	C496	INTENTIONALLY LEFT BLANK NO DATE LISTED
	C497	INTENTIONALLY LEFT BLANK NO DATE LISTED
	C498	Radio Equipment And Systems (RES); Digital ESTI Radio Equipment And Systems (RES); Digital Equipment Telecommunications (DECT) Common Interface Part 5: Network Layer, ETS 300 175-5, 10/01/1992
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	C507	Service Accessibility, ETSI TS 122 011 v 6.4.0 NO DATE LISTED
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	C509	SMH Meeting Report, Doc 255/92, 03/30/1992
	C510	Speech Processing Functions: General Description, GSM 06.01 v 3.0.0, 02/1992
	C511	STEMM, "Vertical Handoffs In Wireless Overlay Networks", Mobile Networks And Applications 3, 1998, Abstract. NO DATE LISTED
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	C513	Sweden, Telecommunications (International Edition), 1991, Vol. 25, No. 10, pp. 145-148 NO DATE LISTED
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	C515	Technical Realization Of The Short Message Service - Point-to-Point, GSM 03.40 v. 3.5.0, 02/1992
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